

SYNOLAN 1000



LUBRICATION



TOTAL

Premium, Synthetic (PAO), Ashless Multi-Purpose Oils.

APPLICATIONS

Synthetic, Gear & Bearing oils
for rotating equipment.

Compressors
Gears
Bearings
Circulating systems

- **SYNOLAN 1000 OILS** are multi-purpose, ashless synthetic (PAO) gear and bearing oils that excel in a wide range of applications including rotary screw air compressors (especially viscosity grades ISO 32 & 46), and other equipment operating in severe service conditions such as process gas, natural gas and gas gathering applications .
- **SYNOLAN 1000 OILS** are capable of extending the lubricant service life, typically two, three, or four times over that of mineral oil based products. The ISO 32 to ISO 68 grades are recommended for rotary screw compressors while the ISO 100 and ISO 150 grades are recommended for reciprocating air compressors. These products may be used as R&O or anti-wear (AW) gear oils when mild AGMA extreme pressure (EP) grades are required.

ADVANTAGES

Long fluid life and high
operating reliability.

- Exceptional high thermal and oxidative stability.
- Excellent low temperature fluidity for easy cold start-ups.
- Excellent water separation at both high and low temperatures.
- Very good anti-wear protection.
- High viscosity index.
- Ashless formula--prevents deposits and maintains cleanliness.
- Excellent filterability.
- Useful temperature range: -20°F - 450°F.
- Compatible with mineral oils and many synthetic oils (diesters, PAO, POE, etc.)

TEST PROPERTIES ---PLEASE SEE NEXT PAGE

SPECIFICATIONS & APPROVALS

- AGMA 9005-EO2, R&O/AW
- DIN 51517-3 CLP
- DIN 51506 VCL/VDL
- ISO 12925-1 CKB (ISO 32 only)
- ISO 12925-1 CKD (ISO 46 thru 1000)

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TYPICAL CHARACTERISTICS	METHODS	SYNOLAN 1000				
ISO Viscosity Grade		32	46	68	100	150
AGMA Grade		-	1	2	3	4
API Gravity	ASTM D 1298	35.0	36.0	33.0	32.5	30.8
Viscosity at 40°C, cSt	ASTM D 445	30.0	42.3	69.5	106.0	150.0
Viscosity at 100°C, cSt	ASTM D 445	6.0	7.3	12.4	18.0	17.5
Viscosity Index	ASTM D 2270	148	136	138	140	142
Density @ 60°F, lbs./gal.	ASTM D 1298	7.08	7.04	7.15	7.19	7.26
Specific Gravity @ 60/60°F	ASTM D 1298	0.848	0.845	0.860	0.863	0.872
Pour Point, °F(°C)	ASTM D 97	-70(-57)	-70(-57)	-55(-48)	-45(-43)	-40(-40)
Flash Point, COC, °F(°C)	ASTM D 92	500(260)	530(277)	500(260)	500(260)	475(246)
Oil-Water Separation Time, min.	ASTM D 1401	15	15	45	45	-
Copper Corrosion	ASTM D 130	1B	1B	1B	1B	1B
4 Ball Wear, scar diam., mm	ASTM D 2266	0.50	0.50	0.50	0.50	0.40
FZG, A/8, 3/90, Failure load	ISO 14635-1	11	12	12	12	13

TYPICAL CHARACTERISTICS	METHODS	SYNOLAN 1000				
ISO Viscosity Grade		220	320	460	680	1000
AGMA Grade		5	6	7	8	8A
API Gravity	ASTM D 1298	30.2	29.6	29.2	28.4	27.5
Viscosity at 40°C, cSt	ASTM D 445	234.0	320.0	480.0	654.0	937.0
Viscosity at 100°C, cSt	ASTM D 445	23.7	29.1	38.4	55.3	68.0
Viscosity Index	ASTM D 2270	127	124	124	146	144
Density @ 60°F, lbs./gal.	ASTM D 1298	7.29	7.31	7.34	7.37	7.41
Specific Gravity @ 60/60°F	ASTM D 1298	0.875	0.878	0.875	0.885	0.890
Pour Point, °F(°C)	ASTM D 97	-35(-37)	-30(-34)	-20(-29)	-30(-34)	-20(-29)
Flash Point, COC, °F(°C)	ASTM D 92	475(246)	470(243)	465(241)	520(271)	520(271)
Oil-Water Separation Time, min.	ASTM D 1401	30	30	30	30	-
Copper Corrosion	ASTM D 130	1B	1B	1B	1B	1B
4 Ball Wear, scar diam., mm	ASTM D 2266	0.40	0.40	0.40	0.40	0.40
FZG, A/8, 3/90, Failure load	ISO 14635-1	13	13+	13+	13+	13+

TOTAL Specialties USA, Inc.

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SYNOLAN

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.